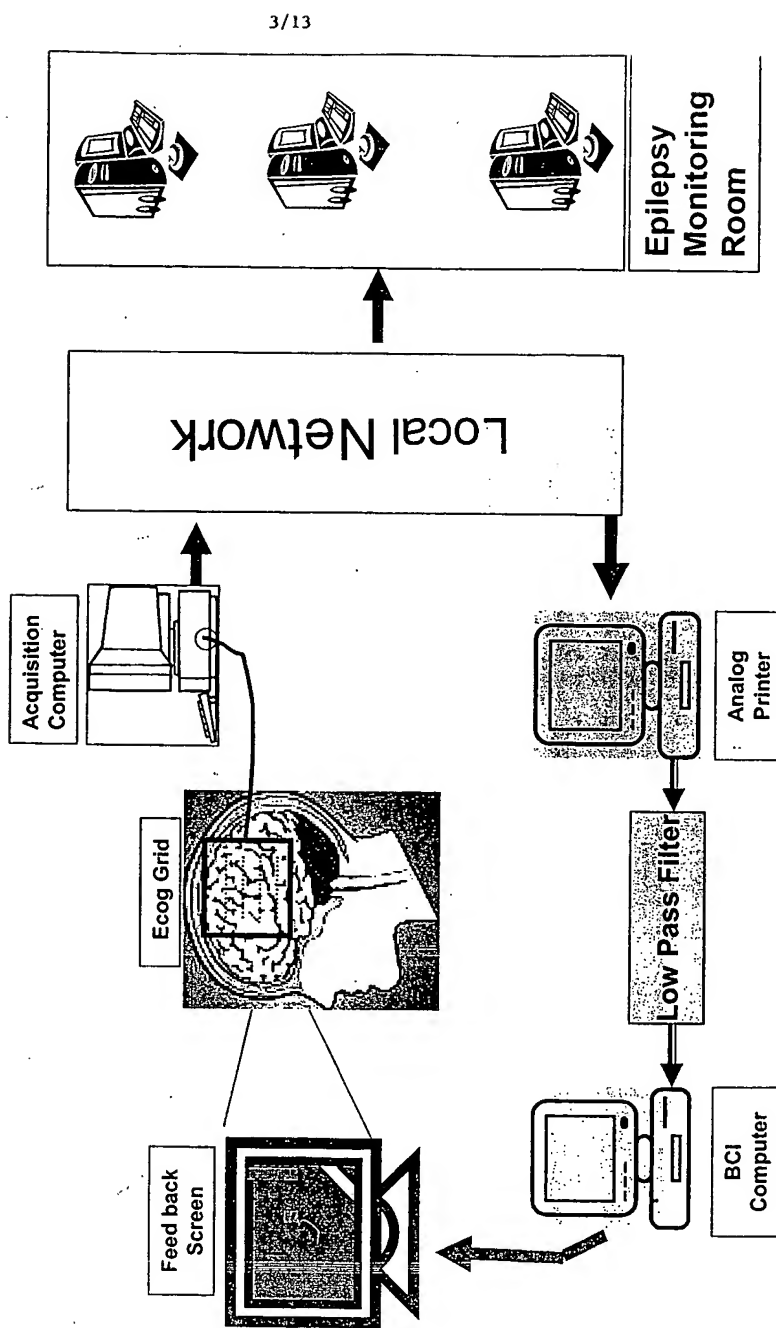


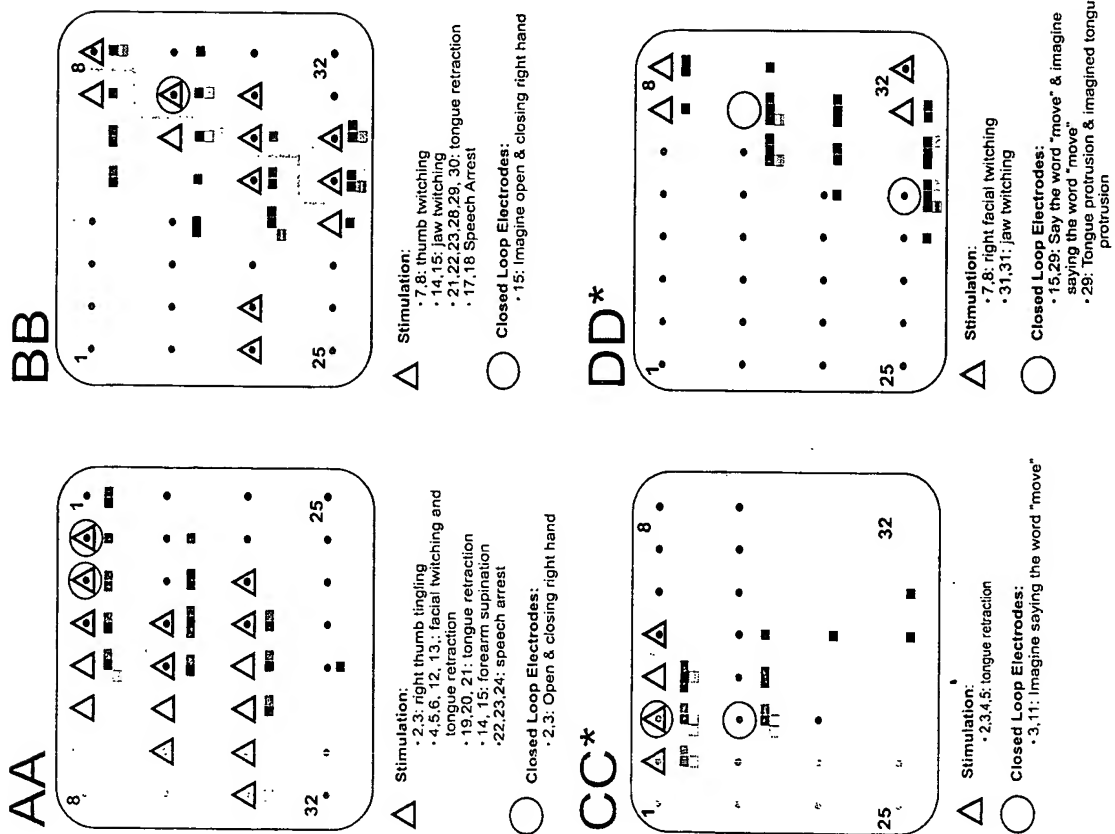


Figure 3a. Ecog BCI - System



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Figure 7



Anatomic Electrode Position

- Temporal Lobe
- Parietal Lobe
- Prefrontal
- Premotor
- Sensorimotor
- Broca's Area

Trained Task Producing Activation

- Opening and closing right hand
- Imagine opening and closing right hand
- Protrude tongue
- Imagine protruding tongue
- Say the word "move"
- Imagine saying the word "move"

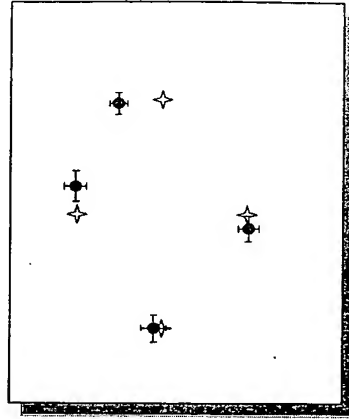
* Patients with speech function localized to right hemisphere

— Central Sulcus

Figure 9

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Prediction of Final Cursor Position



Patient	Self		# trials	1st half->2nd half				interlaced	
	r ² (x)	r ² (y)		r ² (x)	r ² (y)	r ² (x)	r ² (y)		
Patient DD: 4 targets	0.61	0.57	556	0.45	0.45	0.54	0.49		
Patient DD: 8 targets	0.65	0.26	924	0.50	0.06	0.59	0.10		
Patient BB: 4 targets	0.47	0.45	326	0.02	0.14	0.13	0.11		

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Figure 12: Analysis of Motor Speech

